

Cerberus Partnership with Industry

Night Vision & Electronic Sensors Directorate



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

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Cerberus History



- In response to an AMC FY03 request (Operation Noble Eagle) to provide a perimeter security system to account for the manpower shortage at strategist CONUS locations, Cerberus was developed and fabricated by the Special Products and Prototyping Division of NVESD.
- NVESD worked with an industry partner (using an in-house IDIQ contract), who developed the command and control architecture, leveraged from a Chem/Bio Defense program.

Cerberus C2 – Industry Developed, Gov't Designed



Initial Cerberus Unit





Industry Involvement



- FY04, Congressional funding was used to partner with an industry platform integrator to develop more tactically relevant platforms.
- Working with Department of Homeland Security we validated the dual use application of Military technology for the Border surveillance mission.
- Positive interaction with the Field Agents and Soldiers along w/ real time fixes resulted in an operationally significant capability and field user "buy in".
- NVESD continued to work the design and architectural issues. Once perfected, we worked with several industry partners to transfer the design and integration.

FY08-09 USMC involvement led to additional variants and additional industry

partners.



DHS Operator Compartment

DHS - Mobile Surveillance System



Cerberus – Tactical Trailer



Military Variants





Cerberus Family of Sensor Systems





Cerberus HMMWV System



Cerberus Standard Range Trailer



Cerberus Long Range Trailer





Cerberus G-BOSS LITE





Cerberus Scout System RSTA



Cerberus Scout System Multi-Mission



> ONE ARCHITECTURE >MULTIPLE MISSIONS

>COMMON GUI

Common Operating Picture

for all Systems

435 Variants developed with Industry Partnership



Conclusion



- Rapidly deployable Cerberus-like systems have proven themselves. Additional variants capture Lessons Learned.
- No multiyear S&T funding had been available for the R&D.
- Initial Industry involvement in the integration of Cerberus through Congressional funding.
- NVESD worked with the users (DoD/DHS), industry, and the PM community to design, develop, and field this capability to the DHS Agents along the SW Border and for the warfighters.
- Future industry involvement will be determined by user needs and requirements.





LWI identifies requirements

MANSCEN identifies general capabilities, not specific projects or detailed requirements

LWI builds RFP

Requirements Day: in conjunction with LWI RFP. Target is Industry and Academia.

MANSCEN

SMEs provide

information to

help projects

be completed

LWI evaluates white papers

MANSCEN assists
Labs in assessing
military merit of
white papers

MANSCEN provides suggestions about how full proposal can be improved

LWI asks for full proposals



LWI evaluates full proposals

MANSCEN advises and assists LWI with technology transfer

LWI coordinates tech transfer

LWI manages project execution

LWI selects projects

MANSCEN assists Labs in assessing military merit of proposals

Questions

